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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/555,044	10/28/2005	Thanh Van Do	OSL-028	2304
7590 06/08/2009				
Thomas Schneck Schneck & Schneck P O Box 2-E San Jose, CA 95109-0005			EXAMINER AJTBADE AKONAI OLUMIDE	
			ART UNIT 2617	PAPER NUMBER
			MAIL DATE 06/08/2009	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/555,044

Applicant(s)

DO ET AL.

Examiner

OLUMIDE T. AJIBADE AKONAI

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 March 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-17 is/are allowed.
- 6) ☒ Claim(s) 18, 19, 24-31 and 33-35 is/are rejected.
- 7) ☒ Claim(s) 20-23 and 32 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/003)
Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 18, 19, 24-31, and 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Fitton et al 7,346,369 (hereinafter Fitton)** in view of **Thanh et al "The Device Management Service"**.

Regarding **claim 18**, Fitton discloses a system, comprising: at least one first device capable of transmitting a first output stream via a first communication interface (laptop 12 receives a paging request for phone 100, indicating presence of at least a first device transmitting to the laptop 12, see fig. 1, col. 6, lines 1-12); a second device comprising a second communication interface capable of receiving said first output stream (laptop 12 receives a paging request for phone 100, see fig. 1, col. 6, lines 1-12), said second device and at least one third device (phone 100, see fig. 1, col. 5, line 56) forming a Personal Area Network (see fig. 1, col. 5, lines 55-58); a Personal Area Network middleware, executed by at least said second device (WPAN module 103, see fig. 1, col. 5, lines 55-58),

Fitton does not specifically disclose the second device storing at least a user profile including redirection information for said at least one third device of the Personal Area Network, and *arranged* to intercept and redirect said first output stream to an input port of a third device based on said redirection information.

In the same field of endeavor, Thanh et al discloses a storing at least a user profile including redirection information for said at least one third device of a Personal Area Network (virtual terminal storing user profile information such that input and output stream is redirected from one device to another device based on the stored information, see figure 17, page 202, second column, lines 13-19, page 205, second

column, lines 22-28 and page 209, lines 1-13), and arranged to intercept and redirect said first output stream to an input port of a third device based on said redirection information (redirecting input and output streams, see figure 17, page 202, second column, lines 13-19, page 205, second column, lines 22-28 and page 209, lines 1-13).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Thanh et al, by having the WPAN device of Fitton store profile information of other devices in the WPAN network and redirect input and output streams between the other WPAN devices for the benefit of switching/changing devices that receive input/output streams in a WPAN network.

Regarding **claim 19** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Thanh further discloses further comprising a user interface application enabling a user to control said Personal Area Network middleware and manage said redirection information (see figure 17, page 202, second column, lines 13-19, page 205, second column, lines 22-28 and page 209, lines 1-13).

Regarding **claim 24** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Fitton further discloses further comprising at least one other second device, wherein said Personal Area Network middleware is distributed among said second devices (see col. 5, lines 55-58).

Regarding **claim 25** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Thanh further discloses wherein said Personal Area Network middleware is distributed using XML Web

services (see figure 17, page 202, second column, lines 13-19, page 205, second column, lines 22-28 and page 209, lines 1-13).

Regarding **claim 26** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Thanh further discloses wherein said first output stream is generated by a first application, said system further comprising a second application generating a second output stream, said second output stream being redirected by said Personal Area Network middleware to a third device other than that to which said first output stream is redirected (see figure 17, page 202, second column, lines 13-19, page 205, second column, lines 22-28 and page 209, lines 1-13).

Regarding **claim 27** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Fitton further discloses wherein said first device and said third device are selected from communication devices, computing devices, peripheral devices, electronic devices or electronic appliances (see col. 5, lines 55-58).

Regarding **claim 28** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Fitton further discloses wherein at least one of said first devices and said third devices is arranged to communicate with and to act as a pure slave to other devices (see col. 5, lines 55-58).

Regarding **claim 29** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Thanh further discloses wherein said Personal Area Network middleware is additionally arranged to discover and register any of said first, second, and third devices present in said Personal Area Network and to store their presence in a device profile including device information on at least identity, type,

capabilities and services offered by any of said first, second, or third devices (see figure 17, page 202, second column, lines 13-19, page 205, second column, lines 22-28 and page 209, lines 1-13).

Regarding **claim 30** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Thanh further discloses wherein said user profile further comprises which of said first, second and third devices are members of said Personal Area Network (see figure 17, page 202, second column, lines 13-19, page 205, second column, lines 22-28 and page 209, lines 1-13).

Regarding **claim 31** as applied to claim 30, Fitton as modified by Thanh discloses the claimed limitation. Thanh further discloses wherein said user profile further comprises which of said first, second and third devices are available for said Personal Area Network (see figure 17, page 202, second column, lines 13-19, page 205, second column, lines 22-28 and page 209, lines 1-13).

Regarding **claim 33** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Thanh further discloses wherein said user profile further comprises information regarding distribution of services and resources among said first, second and third devices present in said Personal Area Network (see figure 17, page 202, second column, lines 13-19, page 205, second column, lines 22-28 and page 209, lines 1-13, page 210, first column, lines 1-12).

Regarding **claim 34** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Thanh further discloses wherein said Personal Area Network middleware is arranged to include an Application Programming Interface

enabling application access to capabilities and functions in said Personal Area Network middleware (see figure 17, page 202, second column, lines 13-19, page 205, second column, lines 22-28 and page 209, lines 1-13).

Regarding **claim 35** as applied to claim 18, Fitton as modified by Thanh discloses the claimed limitation. Thanh further discloses, wherein said Application Programming Interface is implemented as any of: Java, CORBA or an XML Web service (see figure 17, page 202, second column, lines 13-19, page 205, second column, lines 22-28 and page 209, lines 1-13).

Allowable Subject Matter

3. Claims 20-23 and 32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-17 are allowed.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T. AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>.

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OA

/Charles N. Appiah/
Supervisory Patent Examiner, Art Unit 2617